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CLAIMS

We claim:

from said anchor position.

1 1. A system for using eye gaze to control a scroll mate
2 of information presented on a display, comprising:
3 a display for displaying scrolling information;
4 means for monitoring a gaze position on said
5 display relative to an anchor position;
6 control means for adjusting a speed of said
7 scrolling information if said gaze position deviates

- 1 A system for using eye gaze to control the rate of 2 information presented on a display as recited in claim 3 1 wherein said scrolling information scrolls from a 4 bottom of said display to a top of said display and 5 wherein said control means increases said scroll 6 rate if said gaze position moves below said anchor 7 position and decreases said scroll rate if said gaze 8 position moves above said anchor position.
- 3. A system for using eye gaze to control the rate of
 information presented on a display as recited in claim
- 3 2 wherein said control means reverses scroll direction
- 4 if said gaze position moves near said top of said
- 5 display.
- 4. A system for using eye gaze to control the rate of
- 2 information presented on a display as recited in claim

- 3 1 wherein said scrolling information scrolls from a top
- 4 of said display to a bottom of said display.
- 5. A system for using eye gaze to control the rate of
- 2 information presented on a display as recited in claim
- 3 4 wherein said control means reverses scroll direction
- 4 if said gaze position moves near said bottom of said
- 5 display.
- 6. A system for using eye gaze to control the rate of
- 2 information presented on a display as presented in
- 3 claim 1 wherein said anchor position is horizontal line
- 4 at the center of said display.
- 1 7. A system for using eye gaze to control the rate of
- 2 information presented on a display as recited in claim
- 3 1 wherein said scrolling information scrolls
- 4 horizontally from a first side of said display to a
- 5 second side of said display.
- 8. A system for using eye gaze to control the rate of
- 2 information presented in a display as recited in claim
- 3 7 wherein said anchor position is a vertical line at a
- 4 center of said display.
- 1 9. A system for using eye gaze to control the rate of
- 2 information presented in a display as recited in claim
- 3 1 wherein said control means dynamically adjusts said
- 4 anchor position to the position of gaze dwell.

- 1 10. A system for using eye gaze to control the rate of
- 2 information presented in a display as recited in claim
- 3 7 wherein said control means reverses scroll direction
- 4 if said gaze position moves near said second side of
- 5 said display.
- 1 11. A method for automatically adjusting a scroll rate
- of information scrolling on a display, comprising the
- 3 steps of:
- 4 defining an initial anchor position near a center
- 5 line of a display;
- 6 scrolling information across said display at a
- 7 scroll rate with new information appearing at a first
- 8 side of said display and disappearing at a second side
- 9 of said display;
- 10 tracking a gaze position on said display;
- increasing said scroll rate if said gaze position
- 12 moves from said anchor position toward said first side
- of said display; and
- decreasing said scroll rate if said gaze position
- moves from said anchor position toward said second side
- 16 of said display.
 - 1 12. A method for automatically adjusting a scroll rate
- of information scrolling on a display as recited in
- 3 claim 11 further comprising the step of:
- 4 reversing scroll direction if said gaze moves near
- 5 said second side of said display.
- 1 13. A method for automatically adjusting a scroll rate

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of information scrolling on a display as recited in claim 11 further comprising the step of: dynamically adjusting said anchor position in

response to gaze dwell.

- 1 14. A computer readable medium comprising software
 2 instructions for automatically adjusting a scroll rate
 3 of information scrolling on a display, said
 4 instructions comprising the steps of:
- 5 defining an initial anchor position near a center 6 line of a display;

scrolling information across said display at a scroll rate with new information appearing at a first side of said display and disappearing at a second side of said display;

tracking a gaze position on said display;
increasing said scroll rate if said gaze position
moves from said anchor position toward said first side
of said display; and

decreasing said scroll rate if said gaze position moves from said anchor position toward said second side of said display.

- 1 15. A computer readable medium comprising software
- 2 instructions for automatically adjusting a scroll rate
- 3 of information scrolling on a display as recited in
- 4 claim 14, said instructions further comprising the
- 5 steps of:
- 6 reversing scroll direction if said gaze moves near 7 said second side of said display.

1	16. A computer readable medium comprising software
2	instructions for automatically adjusting a scroll rate
3	of information scrolling on a display as recited in
4	claim 14, said instructions further comprising the
5	steps of:
6	dynamically adjusting said anchor position in
7	response to gaze dwell.